

## Lumicitabine

## Chemical Properties

CAS No.:	1445385-02-3
Formula:	C <sub>18</sub> H <sub>24</sub> ClFN <sub>3</sub> O <sub>6</sub>
Molecular Weight:	433.86
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Lumicitabine (ALS-008176) is an inhibitor of RSV polymerase.
In vivo	In an adult human challenge study, Lumicitabine has shown efficacy against RSV infection[1]. Lumicitabine solubility is adequate to support oral administration in solutions with a relatively low percentage of organic solvent and in aqueous suspensions. High levels of NMP and NTP are obtained following the oral administration of Lumicitabine to monkeys [2].

## Solubility Information

Solubility	DMSO: 48 mg/mL (110.63 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.305 mL	11.524 mL	23.049 mL
5 mM	0.461 mL	2.305 mL	4.61 mL
10 mM	0.23 mL	1.152 mL	2.305 mL
50 mM	0.046 mL	0.23 mL	0.461 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. DeVincenzo JP, et al. Activity of Oral ALS-008176 in a Respiratory Syncytial Virus Challenge Study. N Engl J Med. 2015 Nov 19;373(21):2048-58.
2. Wang G, et al. Discovery of 4'-chloromethyl-2'-deoxy-3',5'-di-O-isobutyryl-2'-fluorocytidine (ALS-8176), a first-in-class RSV polymerase inhibitor for treatment of human respiratory syncytial virus infection. J Med Chem. 2015 Feb 26;58(4):1862-78.

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